

STEREO CASSETTE DECK

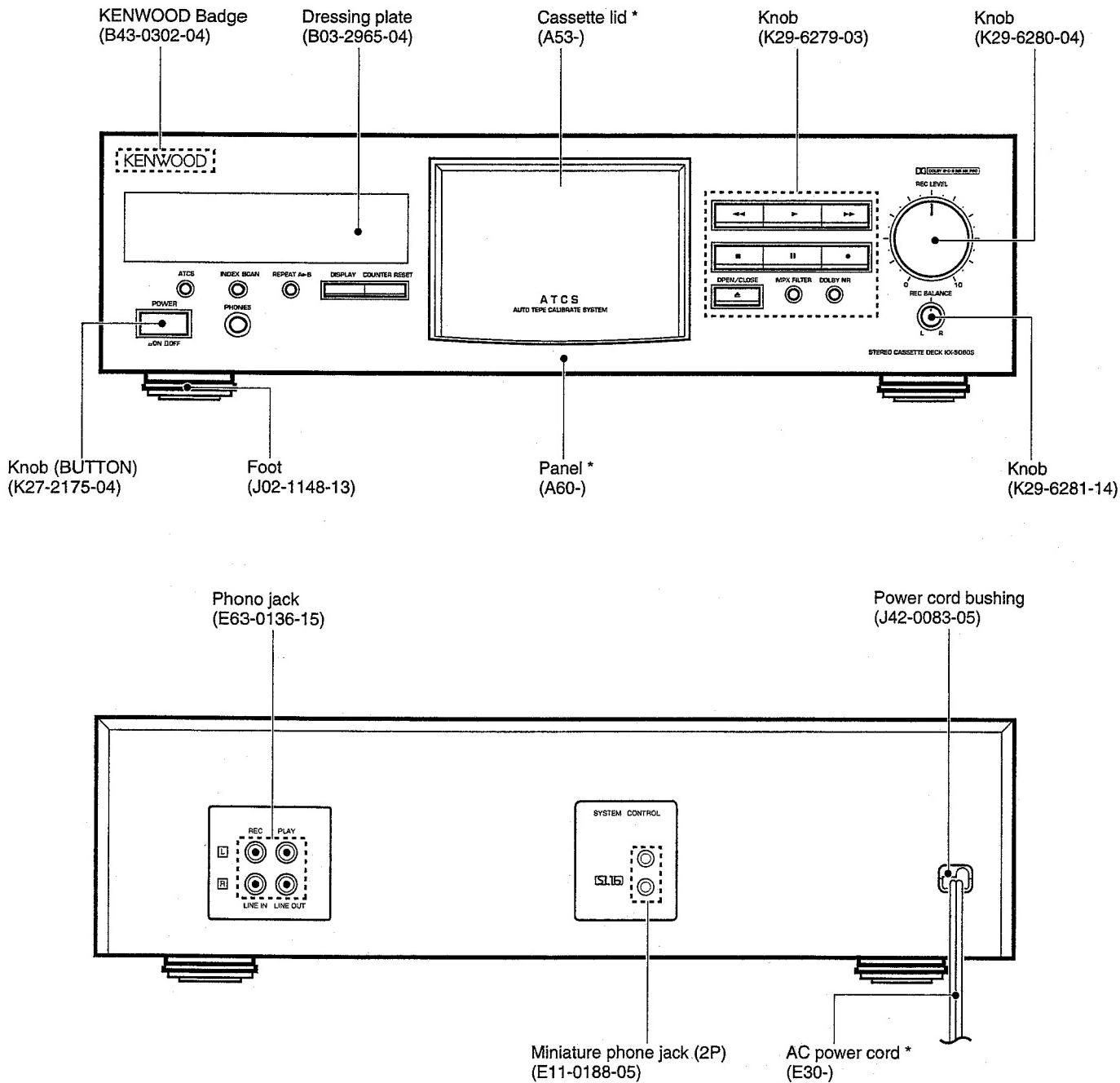
# KX-3080/5080S

## SERVICE MANUAL

KENWOOD

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Illustration is KX-5080S.



\* Refer to parts list on page 25.

# KX-3080/5080S

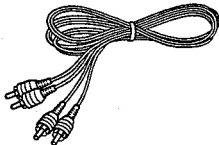
## CONTENTS / ACCESSORIES / CAUTION

### Contents

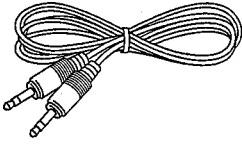
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### Accessories

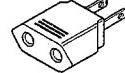
Audio cord ..... 2  
(E30-0505-05)



System control cord ..... 1  
(E30-2816-05)



AC plug adaptor ..... 1  
(E03-0115-05)



(Except for Europe and Australia)  
For the unit with a European AC plug in  
areas other than Europe.

### Caution

#### *Beware of condensation*

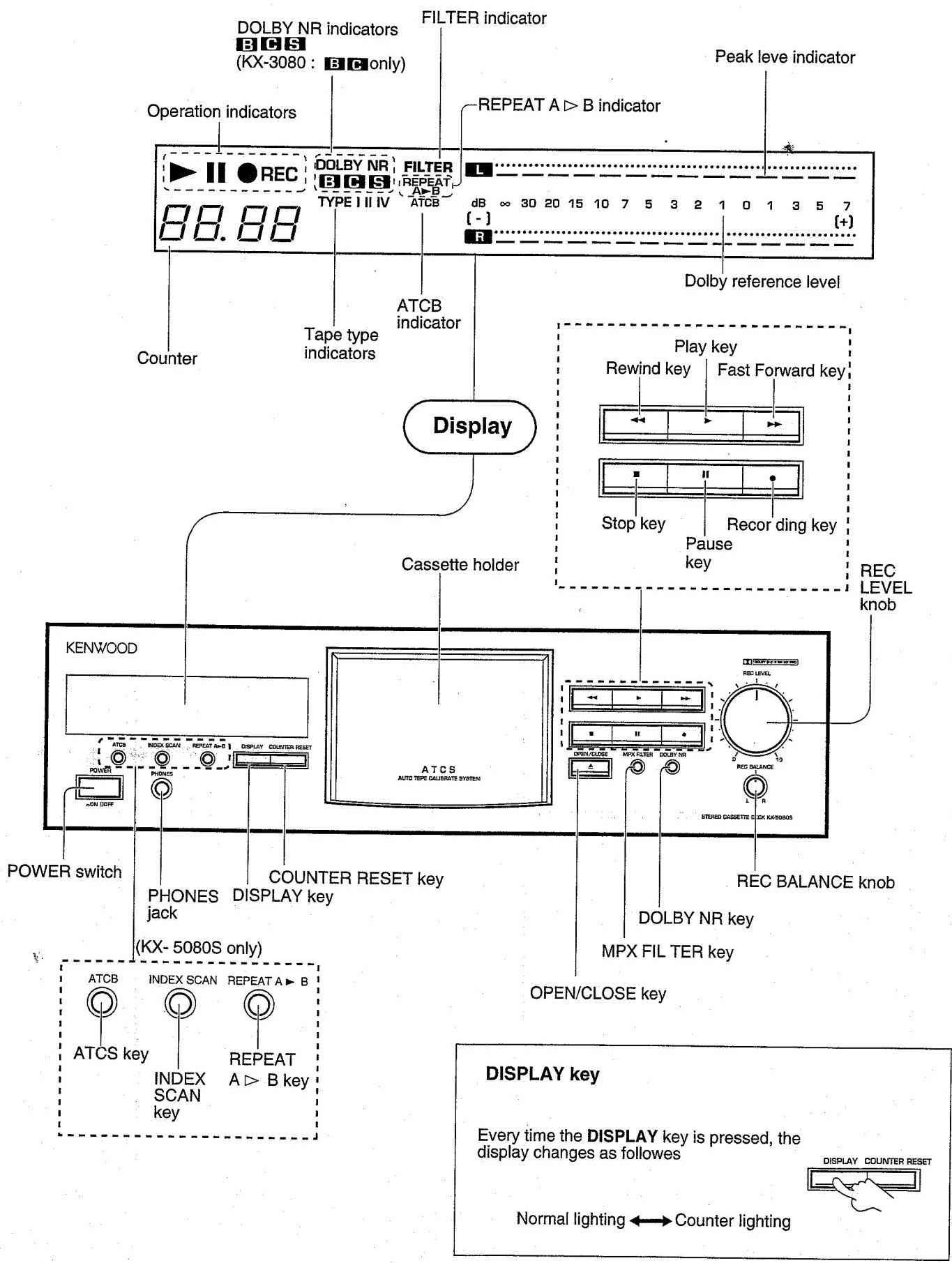
When water vapor comes into contact with the surface of cold material, water drops are produced. If condensation occurs, correct operation may not be possible, or the unit may not function correctly. This is not a malfunction, however, and the unit should be dried. (To do this, turn the POWER switch ON and leave the unit for several hours.)

#### *Be especially careful in the following conditions:*

- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

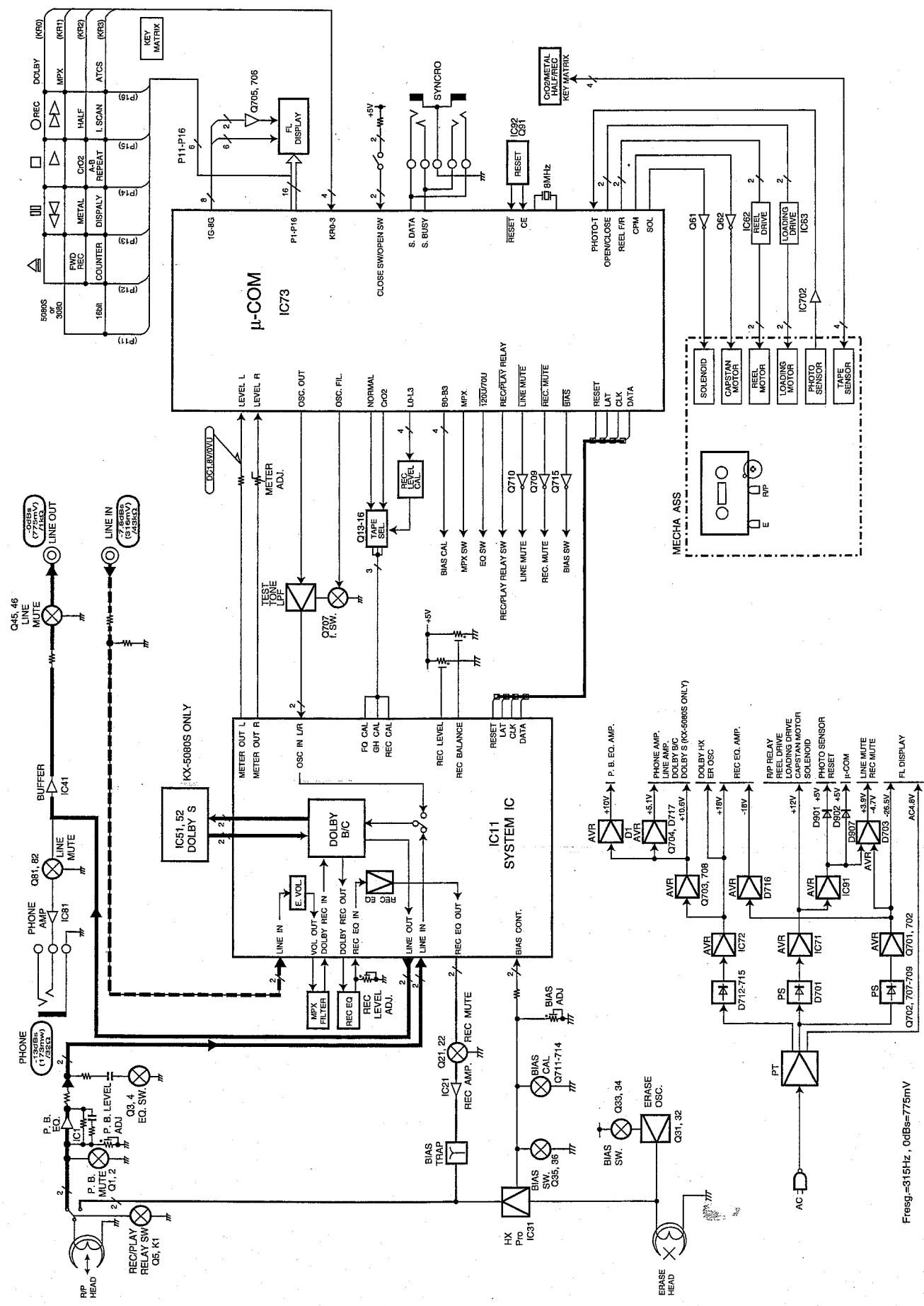
# KX-3080/5080S

## CONTROLS



# KX-3080/5080S

## BLOCK DIAGRAM



# KX-3080/5080S

## CIRCUIT DESCRIPTION

### Microprocessor periphery block diagram

SW0 : Test mode 1

SW1 : Model function

Model	Dolby NR (S)	A.T.C.S / index Scan / A-B Repeat	SW1
KX-3080	X	X	0
KX-5080S	0	0	1

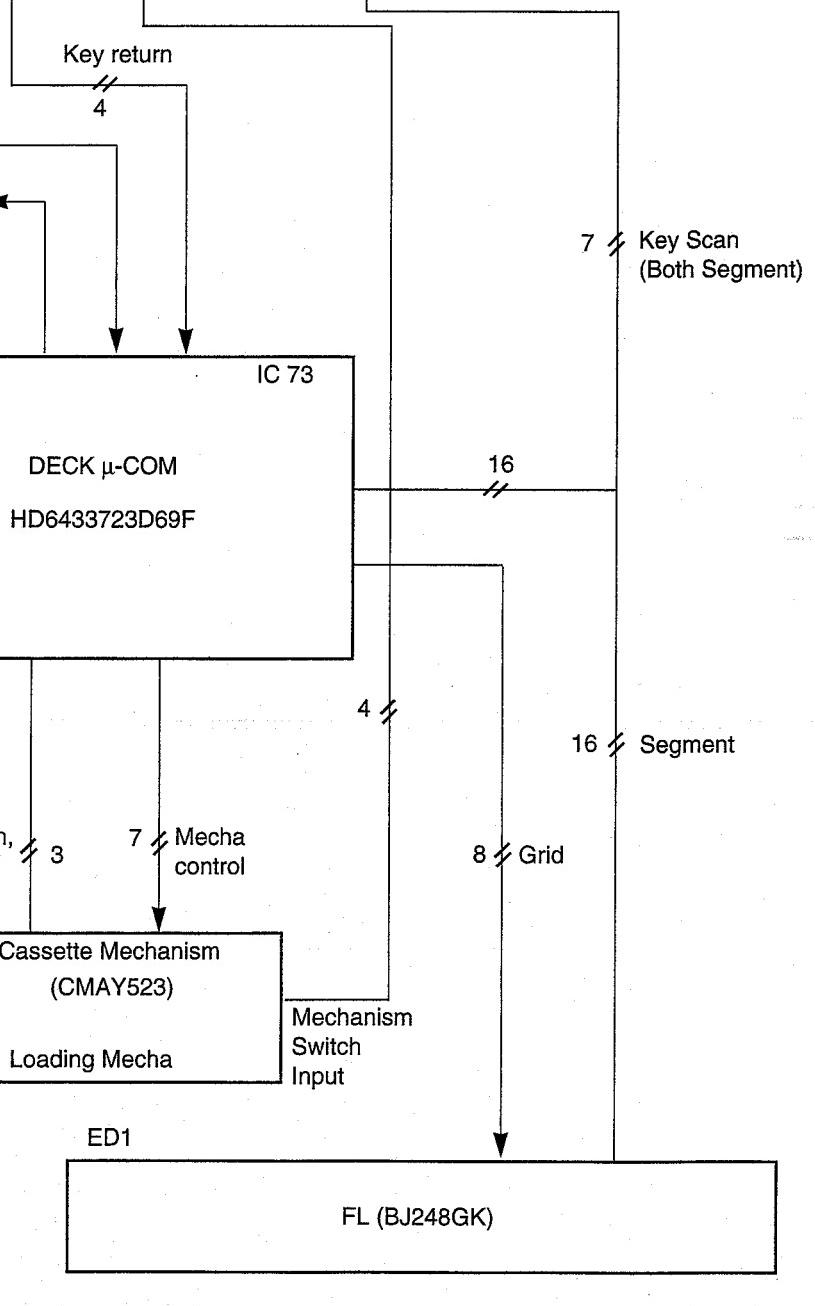
SW2 : Setting of serial mode

(XS8 / SL16)

[ ( ) : μ-Com IC port]

	KS1(29)	KS2(28)	KS3(27)	KS4(26)	KS5(25)	KS6(24)
KR0 (1)	SW0	open / close	II pause	■ stop	● rec	dolby NR
KR1 (2)	SW1		◀ rew	▶ play	► ff	MPX filter
KR2 (3)	SW2	rec inhibit	metal	pack	cro2	
KR3 (4)		counter reset	display	A - B repeat	index scan	ATCS

\* SW0~SW2 : Diode matrix



# KX-3080/5080S

## CIRCUIT DESCRIPTION

### Pin description

Pin No.	Name	I/O	Description		
1	KR0	I	Return pin of auto key scan 0		
2	KR1	I	Return pin of auto key scan 1		
3	KR2	I	Return pin of auto key scan 2		
4	KR3	I	Return pin of auto key scan 3		
5	AVss		Standard GND for A/D input		
6	TEST		Chip test pin. to Vss		
7	X2	I	Crystal oscillator connection pin. to Vcc open		
8	X1	I	Crystal oscillator connection pin. to Vcc open		
9	Vss		GND for operation		
10	OSC1	I	System clock oscillator connection		
11	OSC2	I	System clock oscillator connection		
12	RESET	O	$\mu$ -COM RESET		
13	OPEN	O	Loading motor terminal (Forward)		
14	CLOSE	O	Loading motor terminal (Reverse)		
15	REEL R	O	Reel motor terminal (Reverse)		
16	REEL F	O	Reel motor terminal (Forward)		
17	400/12.5 k	O	OSC filter selection	H : 400Hz	L : 12.5kHz
18	OSC OUT	O	Output square wave using TIMER E		
19	PHOTO(T)	I	Photo interrupter detect input		
20		O	Unused		
21	RPC	O	Mechanism motor control output	H = FF, RWD	L = PLAY
22	SOL	O	Mechanism solenoid control output		
23	METAL CPM	O	CAPSTAN MOTOR TERMINAL	H = ON	L : OFF
24	P16/KS6	O	Segment output for FDP : p : key scan output 6		
25	P15/KS5	O	Segment output for FDP : o : key scan output 5		
26	P14/KS4	O	Segment output for FDP : n: key scan output 4		
27	P13/KS3	O	Segment output for FDP : m : key scan output 3		
28	P12/KS2	O	Segment output for FDP : l : key scan output 2		
29	P11/KS1	O	Segment output for FDP : k : key scan output 1		
30	P10/KS0	O	Segment output for FDP : j : key scan output 0		
31	P9	O	Segment output for FDP : i		
32	P8	O	Segment output for FDP : h		
33	P7	O	Segment output for FDP : g		
34	P6	O	Segment output for FDP : f		
35	P5	O	Segment output for FDP : e		
36	P4	O	Segment output for FDP : d		
37	P3	O	Segment output for FDP : c		
38	P2	O	Segment output for FDP : b		
39	P1	O	Segment output for FDP : a		
40	Vfdp		Power supply pin for driving the FDP (-30[V])		
41	Grid 8	O	Grid output for FDP : 8G		
42	Grid 7	O	Grid output for FDP : 7G		
43	Grid 6	O	Grid output for FDP : 6G		

# KX-3080/5080S

## CIRCUIT DESCRIPTION

Pin No.	Name	I/O	Description	
44	Grid 5	O	Grid output for FDP : 5G	
45	Grid 4	O	Grid output for FDP : 4G	
46	Grid 3	O	Grid output for FDP : 3G	
47	Grid 2	O	Grid output for FDP : 2G	
48	Grid 1	O	Grid output for FDP : 1G	
49		O	Unused	
50		O	Unused	
51	REC/PLAY	O	REC/PB selection	H = REC      L = PLAY
52	120 $\mu$ /70 $\mu$	O	Play back equalizer control (High=70 $\mu$ /Low=120 $\mu$ )	
53	BIAS 0	O	Pin for variable bias(LSB)	
54	BIAS 1	O	Pin for variable bias	
55	BIAS 2	O	Pin for variable bias	
56	BIAS 3	O	Pin for variable bias (MSB)	
57	AVcc		$\mu$ -COM Power supply (+5[V])	
58	REC 0	O	Pin for variable REC equalizer (LSB)	
59	REC 1	O	Pin for variable REC equalizer	
60	REC 2	O	Pin for variable REC equalizer	
61	REC 3	O	Pin for variable REC equalizer (MSB)	
62	MPX ON/OFF	O	MPX filter switching	H = ON      L = OFF
63	CRO2	O	HIGH only at CrO2 position	
64	NORMAL	O	HIGH only at NORMAL position	
65	RESET	O	CXA1778 DEVICE RESET SIGNAL OUTPUT	
66	CLK	O	CXA1778 CLOCK SIGNAL OUTPUT	
67	LAT	O	CXA1778 LATCH SIGNAL OUTPUT	
68	DATA	O	CXA1778 DATA SIGNAL OUTPUT	
69	BIAS ON OFF	O	Bias oscillator control	H : OSC
70	CE	I	Detects chip enable	L = BACK UP
71		O	Unused	
72	R MUTE	O	Recording mute control	L = MUTE ON
73	L MUTE	O	Line mute control	L = MUTE ON
74	P BUSY	I/O	Serial communication with other equipment (BUSY)	
75	P DATA	I/O	Serial communication with other equipment (DATA)	
76	AVcc		Reference voltage for A/D converter	
77	LEVEL L	I	A/D level input Lch	
78	LEVEL R	I	A/D level input Rch	
79	CLOSE SW	I	Loading close detection SW	L = CLOSE
80	OPEN SW	I	Loading open detection SW	L = OPEN

# KX-3080/5080S

## CIRCUIT DESCRIPTION

### OPERATION SPECIFICATIONS MANUAL

#### 1. FEATURES

- ① 2-motor, 1-solenoid, 2-head, single-capstan +1 motor loading
- ② A.T.C.S (KX-5080S ONLY)
- ③ DPSS(REPEAT, UP/DOWN SEARCH, ZERO STOP, REC STANDBY, DASH & PLAY)
- ④ INDEX SCAN [KX-5080S ONLY] mechanism
- ⑤ Dolby B/C/S, HX-PRO [Dolbys : KX-5080S ONLY]
- ⑥ XS8/SL16 (SERIAL OPERATION)
- ⑦ A-B REPEAT [KX-5080 ONLY]

#### 2. OPERATION SPECIFICATIONS

##### 2.1 A.T.C.S (Auto Tape Calibration System key)

Finely adjusts for the optimum bias for each type of tape : normal/chrome/metal. The bias has 16 levels.

When the tape type is changed, when a cassette with the recording prevent tab removed is mounted, or when the A.T.C.S key is pressed with A.T.C.S on A.T.C.S lit up), A.T.C.S ends. The display is cleared and the bias is returned to the center value.

##### (Summary of Operations)

- 10-second no-sound recording
- 200-ms recording with 400-Hz oscillation as standard bias
- Recording for 200 ms per level with 12.5 oscillation shifted in order through all 16 bias levels from the deepest
- Rewind to 400-Hz recording start point
- Playback with 400-Hz playback level sampled.
- 12.5-kHz playback level sampled at each bias level and the bias at which 400-Hz playback level  $\leq$  12.5-kHz playback level taken as optimum bias level
- Rewind to 400-Hz recording start point ; end

##### 2.2 XS8/SL16 System control

Combination with amps, receivers, etc. with the XS8/SL16 make easy bidirectional operation possible.

The 16-bit format is also supported.

- 1) Switch on the AC power while pressing the  $\blacktriangleright$  key.

The unit goes into 16-bit format and subsequent communications use the 16-bit format.

(The fact that the format is the 16-bit format is backed up.)

- 2) Switch on the AC power while pressing the  $\blacktriangleleft$  key.

The unit goes into 8-bit format and subsequent communications use the 8-bit format.

(The fact that the format is the 8-bit format is backed up.)

- 3) Short KS1 and KR2 with the diode and switch on the power. Communications use the 16-bit format, but if you press the  $\blacktriangleleft$  key or  $\blacktriangleright$  key while switching on the power, the format set with the  $\blacktriangleleft$  or  $\blacktriangleright$  key takes precedence.

#### 2.3 Counter

This is a digital counter. When the unit is on standby and when the AC power is off, the counter value is backed up.

#### 3. DEFAULT STATES

##### 3.1 Main unit default states

ITEM	STATE
POWER	POWER ON
DOLBY	OFF
MPX FILTER	OFF
COUNTER	0000
DISPLAY	ALL DISPLAY MODE
A.T.C.S	OFF
REC EQ VALUES	CENTER
BIAS VALUES	CENTER
BIAS VALUES	CENTER
TAPE TYPE	TYPE I
SERIAL MODE	NOT SPECIFIED *

\*When the serial format is not specified, the format is determined by the KS-1  $\rightarrow$  KR2 diode short in the key matrix. (This is set at the factory for 8-bit format.)

##### 3.2 Backed up data

- Dolby mode
- Digital counter
- MPX filter
- A.T.C.S REC EQ and bias value
- Serial mode (8/16 bit)
- Tape type

\*Switching on the AC power pressing the Stop key initializes the unit.

# KX-3080/5080S

## CIRCUIT DESCRIPTION

### 4. TEST MODE

Setting method Test 1. While pressing the play key [▶], or shorting KSI and KRO with the diode, plug the power cord to the AC wall outlet.

\* KSI : pin2905 IC73

\* KRO : pin 105 IC73

- Ending test mode : Pause the unit or turned off the AC power. The contents of test mode are not backed up.

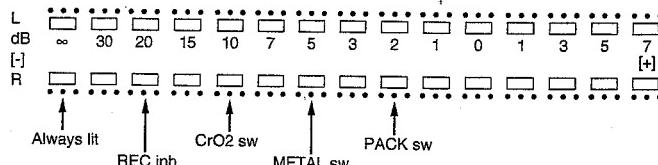
### 4.1 Test 1 specifications

#### (1) All-lit display

The display comes on 500 ms after the power is turneded on and for about 2 seconds the entire display lights up. At the end of the all-lit display, key input can be accepted.

#### (2) Mechanical turned display

The state of each of the mechanical turned is displayed on the right channel of the level meter when the line meter is on. There is no sutch display on the left channel.



#### (3) Direct change

Even in play mode, the unit goes directly into record mode.

#### (4) A.T.C.S

Setting ARM time reduced

(Maximum about 10 seconds → about 3 seconds)

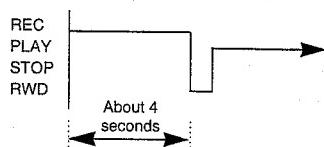
#### (5) A-B repeat

Setting A-B time reduced

(Maximum about 10 seconds → 2 seconds)

#### (6) 4-second recording

When you press the REC key, the unit records for 4 seconds, then automatically rewinds and plays back those 4 seconds. During recording, if you press the REC key again, 4 seconds are recorded from that time.



### 4.2 Synchronization test mode (KSJ-0816)

#### • Synchro test on

If the deck power is on, in any mode, the synchro test on code (E040H) turned on the synchro test

#### • Synchro test off

The synchro test off code (E041H) turned off the synchro test and returns the unit to the state it was in before the synchro test. Also, since the backing up is ended, the next time the power is turneded on, the default values are set in the backup area.

\* When the unit goes into synchro test mode, all the main unit keys are inhibited.

#### • Main unit key modes

The modes below carry out regular operations.

	CODE
FWD PLAY	E020H
FF	E022H
RWD	E023H
STOP	E024H
REC	E025H
PAUSE	E026H
FWD REC	E02CH
CD PEAK SEARCH	E030H
AUTO BIAS	E033H

Dolby control (code)

Dolby OFF --- E037H

Dolby B ON --- E038H

Dolby C ON --- E039H

# KX-3080/5080S

## CIRCUIT DESCRIPTION

- Tape selector (mechanical tape discrimination leaf turned) enable/disable
- Tape Selector On code (E042H)  
Enables the mechanical leaf turned
- Tape Selector Off code (E043H)  
Ignores the mechanical leaf turned
- When changing the tape selector with serial codes, input the above Off code (E043H), then change the selector with one of the following codes.

NORMAL (E029H)  
CrO<sub>2</sub> (E02AH)  
METAL (E02BH)

- 4-second recording, special codes

Reel pulse counter reset (E047H)

When the B deck is recording, this code resets the reel pulse counter (to 00).

Reverse rewind (E048H)

Puts the unit into rewind mode in the opposite direction from the current tape travel direction.

The reel pulse counter goes into count down mode.

Reverse play at the reel pulse counter reset position (E049H)

The direction is reversed and playback started at the position where the reel pulse counter was reset (the position where the E047H code was input).

- 4-second recording operation procedure

(1) B Recording (E025H) input

The unit starts recording with the B deck.

(2) Reel pulse counter reset (E047H) input

The reel pulse counter is reset to determine the rewind position. The external timer is started and the recording time measured.

(3) After the desired time is recorded, rewind (E048H) input

The tape travel direction is reversed and tape is rewind.

The reel pulse counter goes into count down mode.

Soon after, the operations in 4 are carried out.

(4) Reverse play (E049H) input at reel pulse counter reset position

After the reel pulse counter counts down to the reset position (counter 00), the tape travel direction is reversed and play back starts.

If any other mechanical operation code is input during this series of operations, this operation mode may be ended and normal operation mode may be impossible.

# KX-3080/5080S

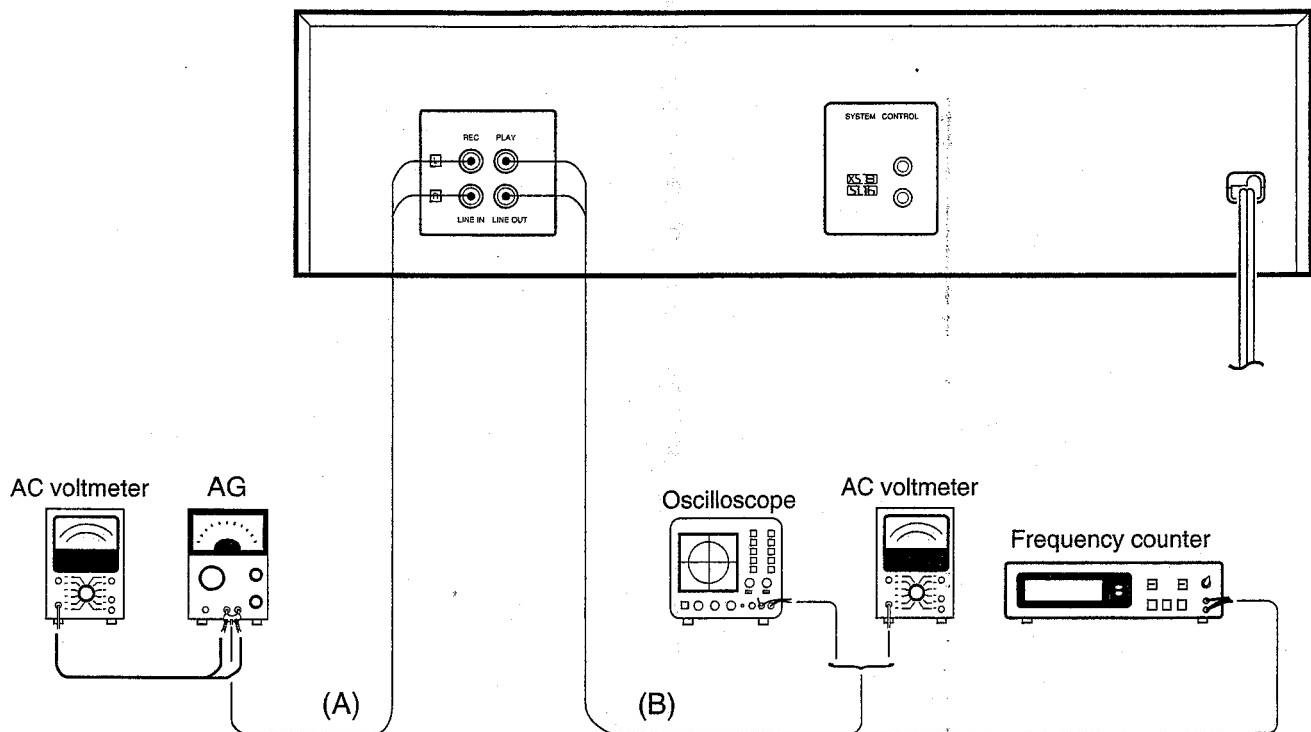
## ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE TAPE DECK SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified:each; switch should be set as follows : TAPE : NORMAL, DOLBY : OFF, INPUT : LINE							0dBs = 0.775V
<b>I. Cassette mechanism section (REC/PB head adjustment)</b>							
[1]	Demagnetization and cleaning	—	—	Power OFF, demagnetization, cleaning play	REC/PB head, erase head, capstan, pinch roller	Demagnetize the REC/PB head by head eraser. Clean the REC/PB head, erase head capstan and pinch roller with a cotton swab immersed in alcohol.	
[2]	REC/PB head azimuth	MTT-114, TCC-153 SCC-1727 10 kHz, -10 dB	(B)	PLAY	Azimuth adjustment screw	In a setting where the output is maximized, adjust the azimuth adjustment screw so that the Lissajous figure appearing on the oscilloscope screen comes near to a line slanted 45°. Note: The head should be installed in such a manner that it approaches the tape face.	(a)
<b>II. PC board adjustment(X26-140)</b>							
< 1 >	Tape speed	MTT-111 TCC-100 SCC-1727 3 kHz, -4 dB	(B)	PLAY	MOTOR	Adjust so that frequency is 3 kHz at the center of the tape.	
< 2 >	Playback level	MTT-150 400 Hz (200 nwb/m)	(B)	PLAY	VR1(L) VR2(R)	Adjust so that LINE OUT is -1.2dBs	
		MTT-256 SCC-1727 315 Hz (160 nwb/m)				Adjust so that LINE OUT is -4.0 dBs.	
		MTT-256U, TCC-160 315 Hz (250 nwb/m)				Adjust so that LINE OUT is 0 dBs.	
< 3 >	Bias current	(A) 1 kHz, -30 dBs 10 kHz, -30 dBs	(B)	Adjust the REC VR (LEVEL, BALANCE) so that the REC monitor output is -20 dBs at 1 kHz, and record and playback 1 kHz, and 10 kHz alternately.	VR13(L) VR14(R)	Record 1 kHz, and 10 kHz alternately, and adjust each bias current adjustment VR so that the 10 kHz play back level is +0.5 dB against 1 kHz.	
< 4 >	Recording level	(A) 1 kHz, -30dBs	(B)	Record and playback 1 kHz with the situation of above < 3 > kept as it is.	VR11(L) VR12(R)	Adjust the variable resistors so that a playback level of -20 dBs is obtained.	
< 5 >	FL meter 0 dB	(A) 1 kHz, -10 dBs	—	REC PAUSE adjust REC VR(LEVEL, BALANCE) so that the monitor output is 0 dBs at 1 kHz.	VR15(R)	Adjust to the same level as that to L-channel.	
Note: On item < 2 > in "II. PC board adjustment"							
Although 3 kinds of tapes are set forth for the playback level adjustment, the use of one tape suffices for adjustment. Here is meant no necessity for the use of all these 3 kinds of tapes. Other than the abovementioned tapes, when a test tape equal in magnetic flux and frequency is available, the adjustment is feasible with this test tape by making the playback output suited to the specified output level of this tape in agreement with the adjustment method.							

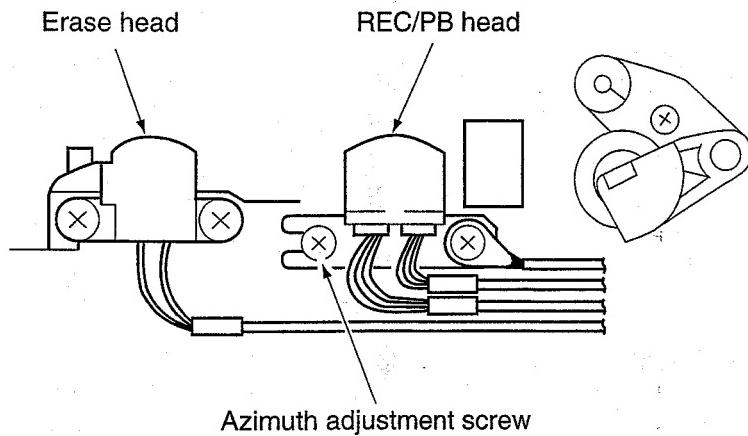
# KX-3080/5080S

## ADJUSTMENT

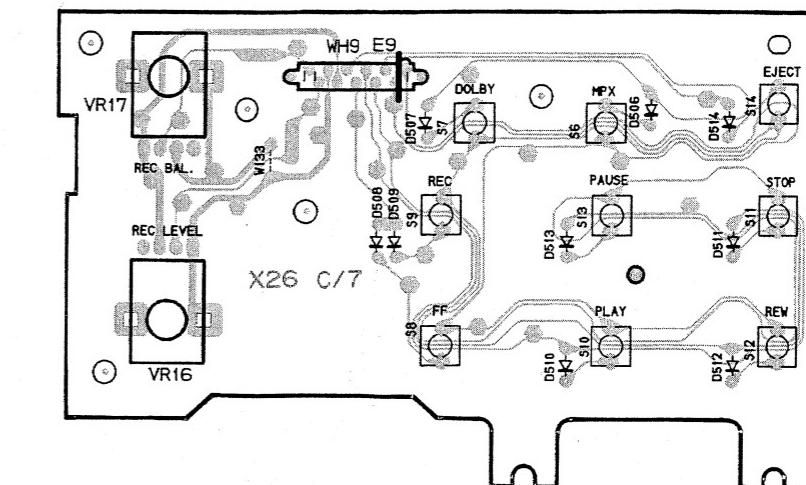
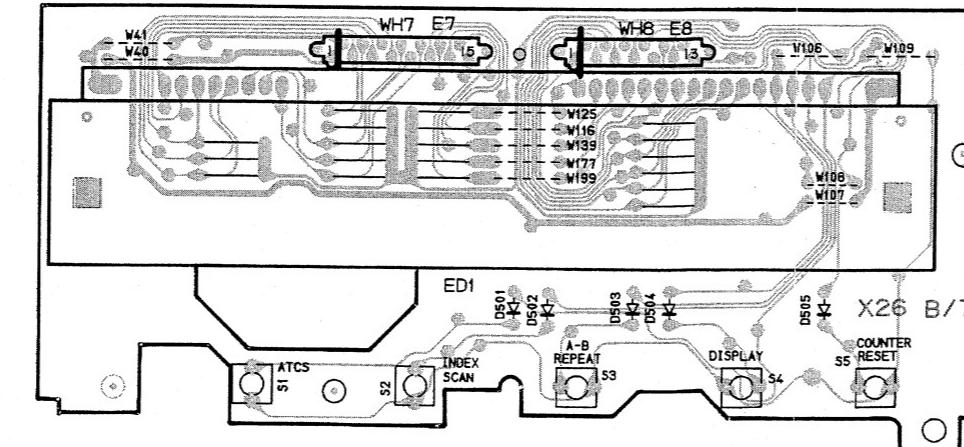
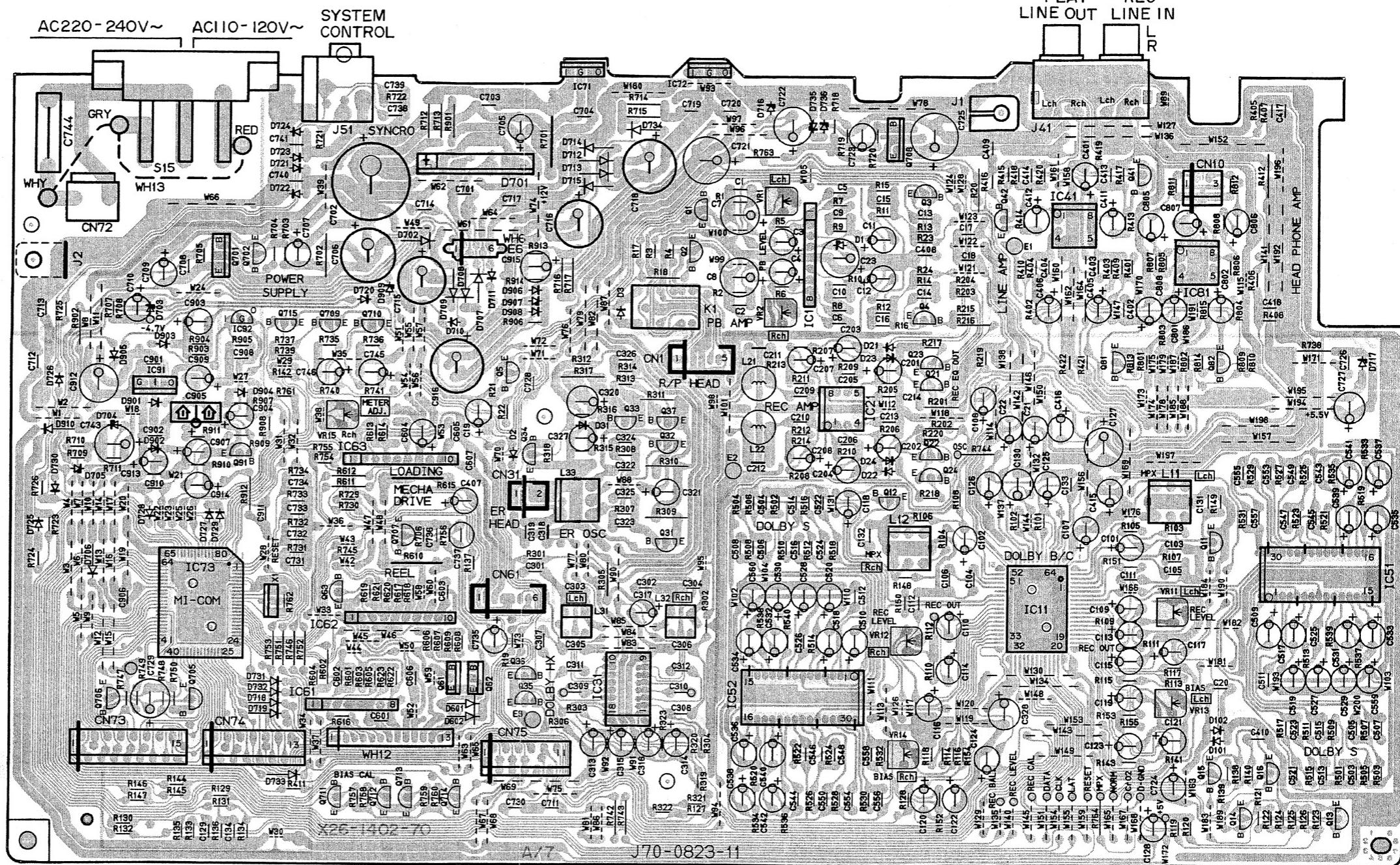
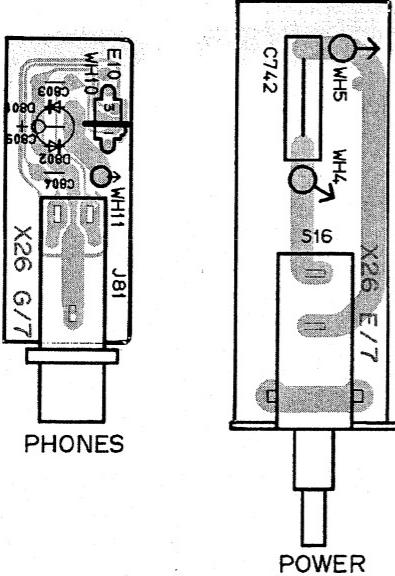
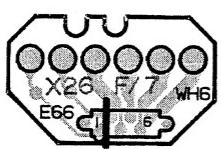
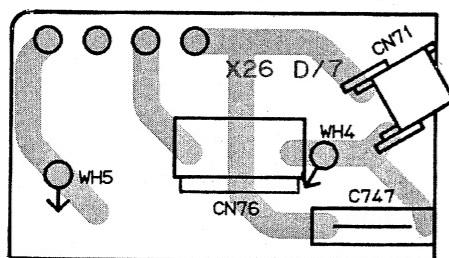
### Measurement Equipment Connection :



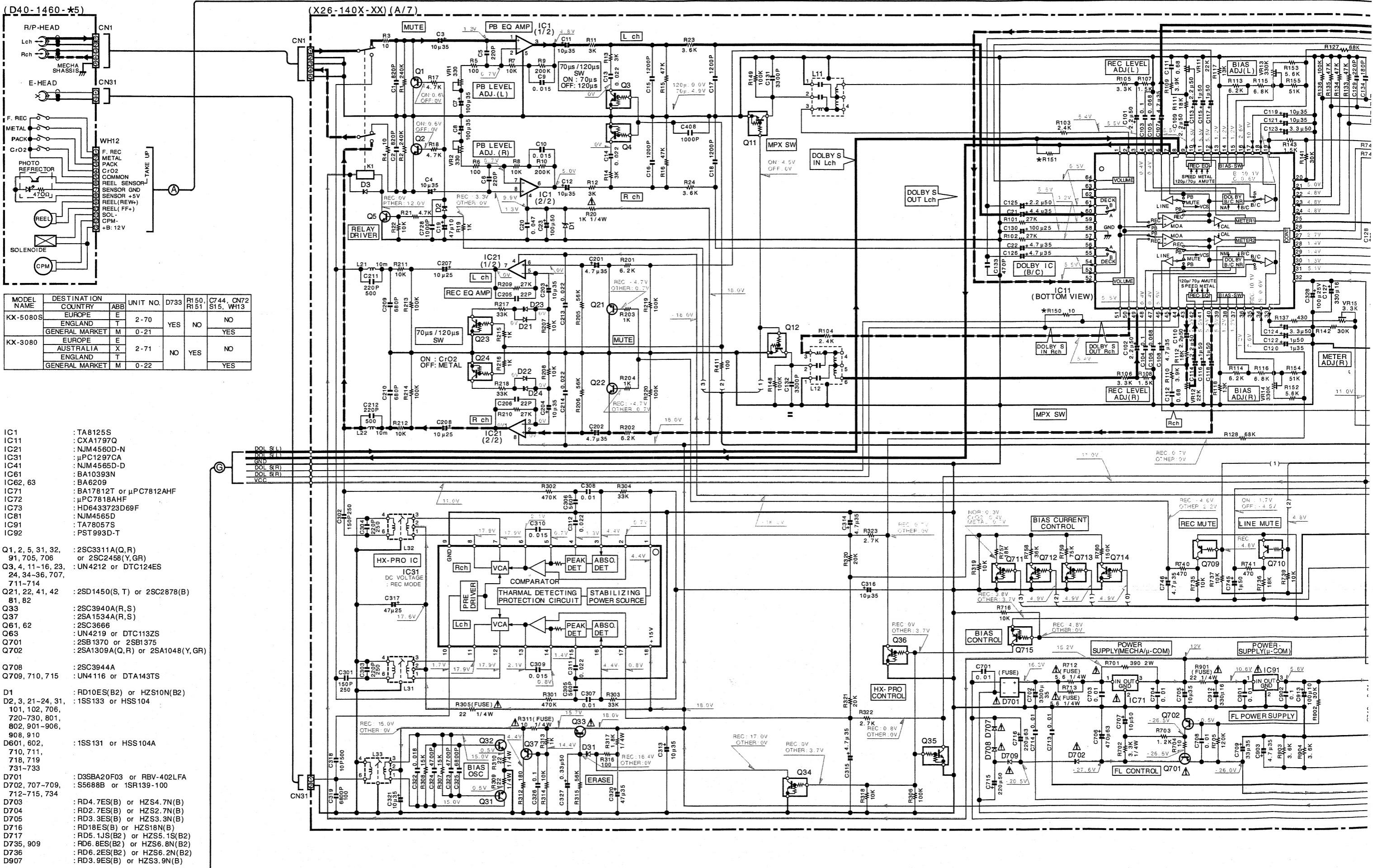
(a) Azimuth adjustment screw

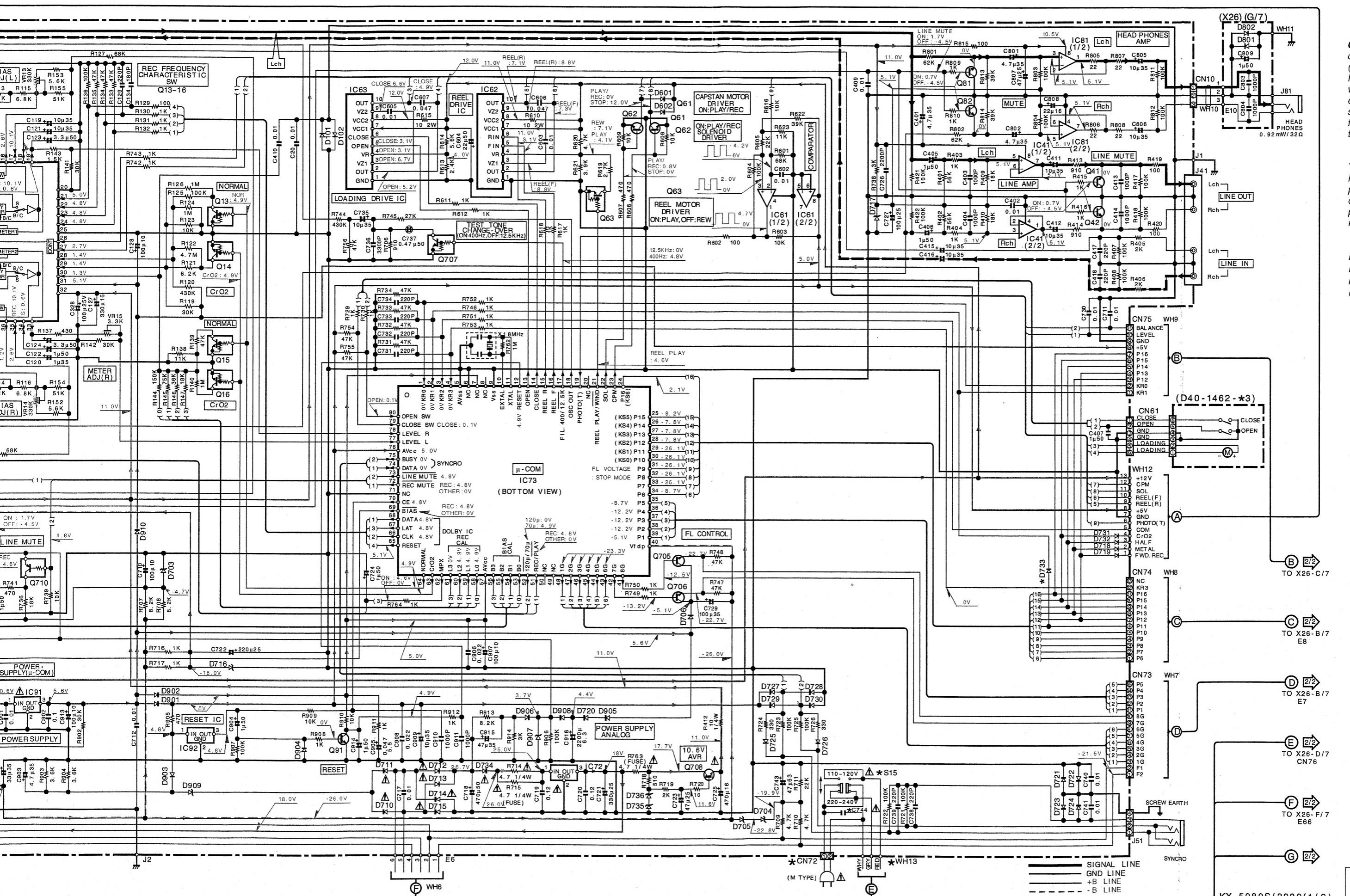


# PC BOARD (Component side view)



FRONT





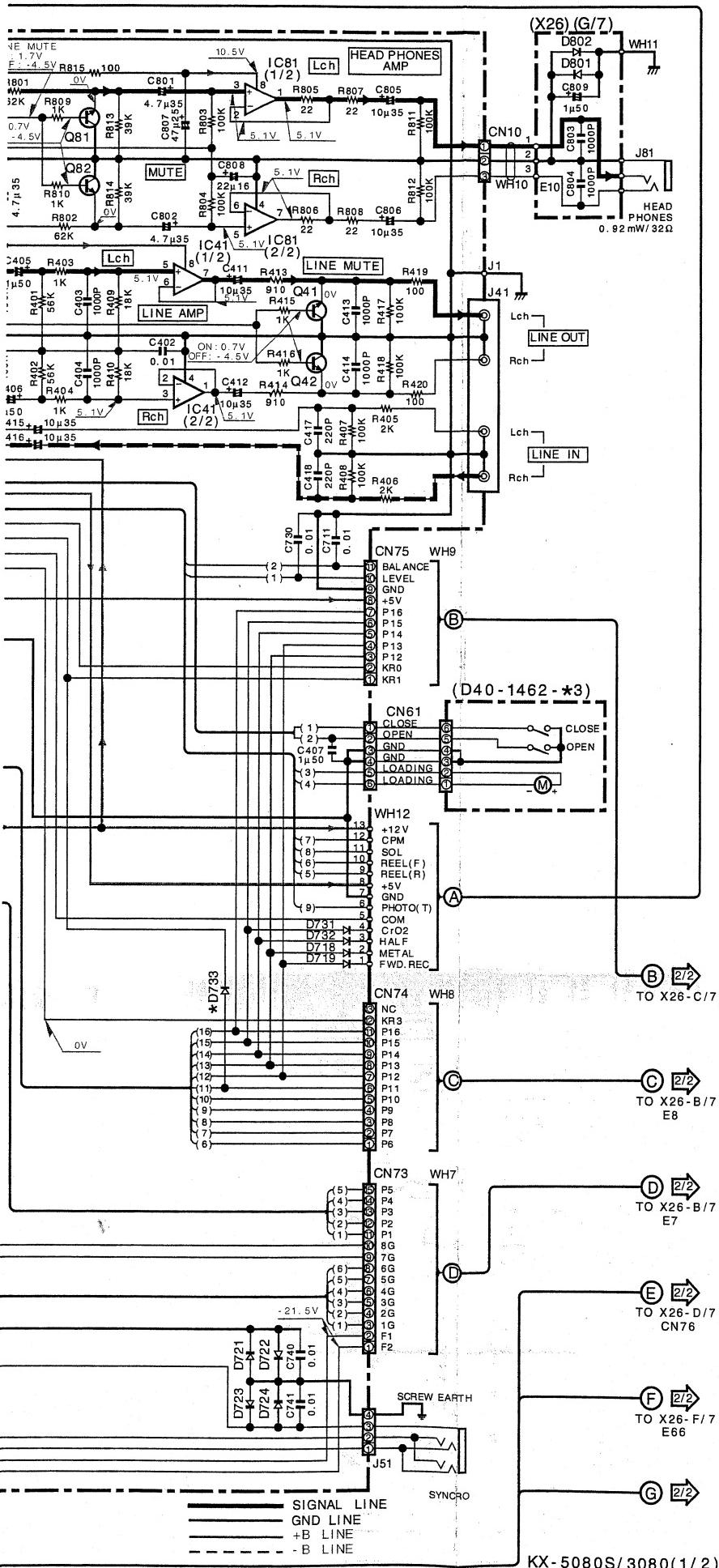
**CAUTION:** For continuing components only with refer to parts list).  i or continued protection with same type and rating. Electric shock, leakage test shall be carried out (except from the supply circuit) by customer.

The DC voltage is an a  
mpedance type volti  
layback mode. The  
depending on the mea  
product. Bias circuit D  
record mode.

DOLBY and the double D Laboratories Licensing made under license from Dolby Laboratories, Inc.

KX-3C

KX-5080S/3080(1/2)



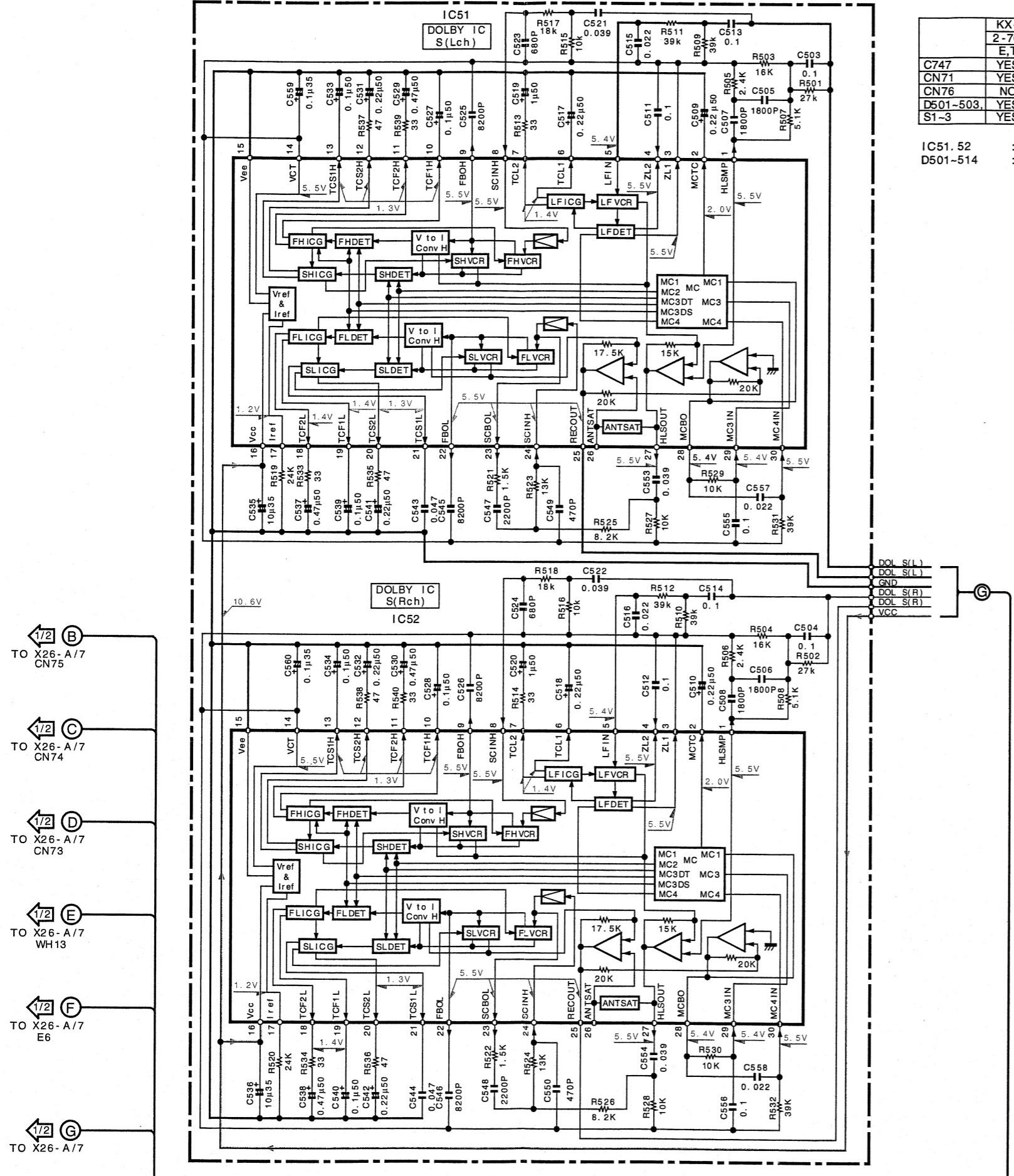
KX-5080S/3080(1/2)

Y26-4132-70

**KX-3080/5080S****KENWOOD**

V W X Y Z AA AB AC AD AE

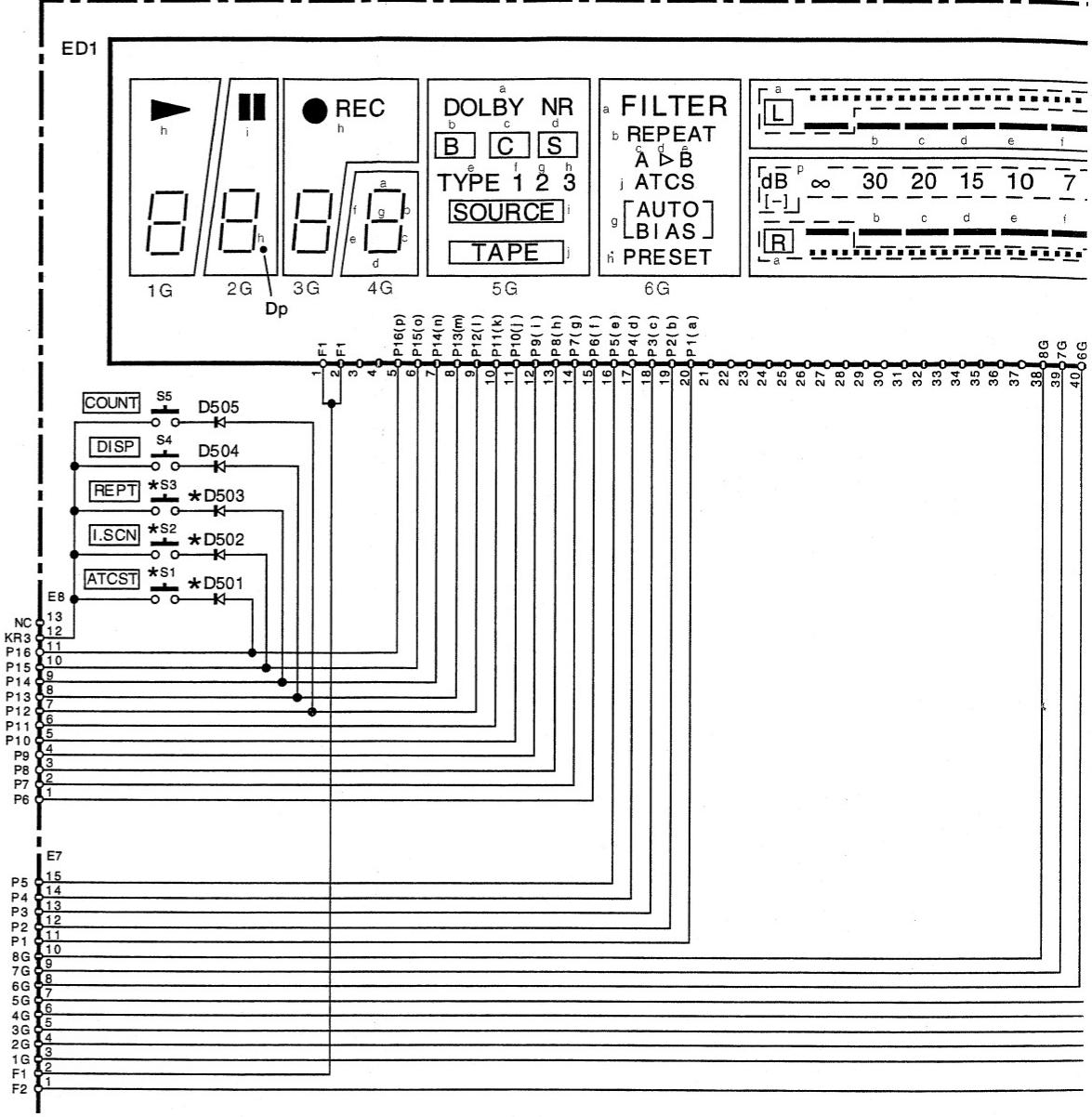
(X26 - 1402 - 70) (2 / 2) (KX-5080S ONLY)



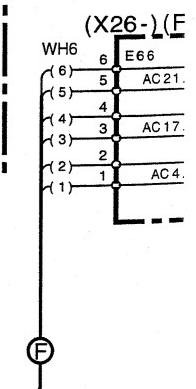
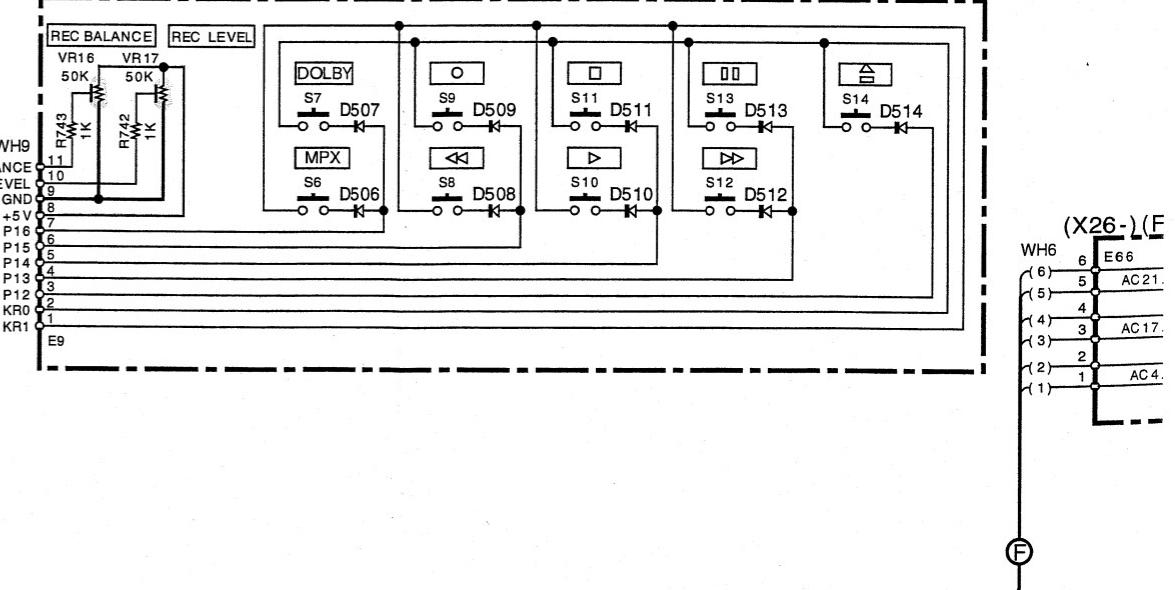
KX-5080S		KX-3080S	
2-70	0-21	2-71	0-22
E,T	M	E,T,X	M
C747	YES	NO	YES
CN71	YES	NO	YES
CN76	NO	YES	NO
D501-503,	YES	YES	NO
S1-3	YES	YES	NO

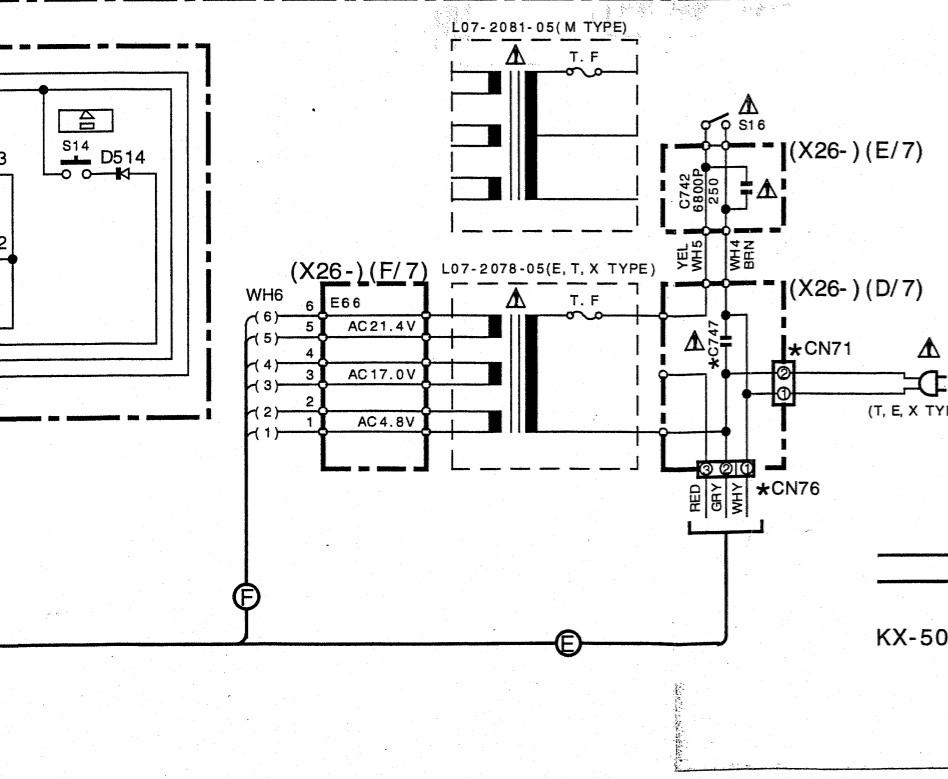
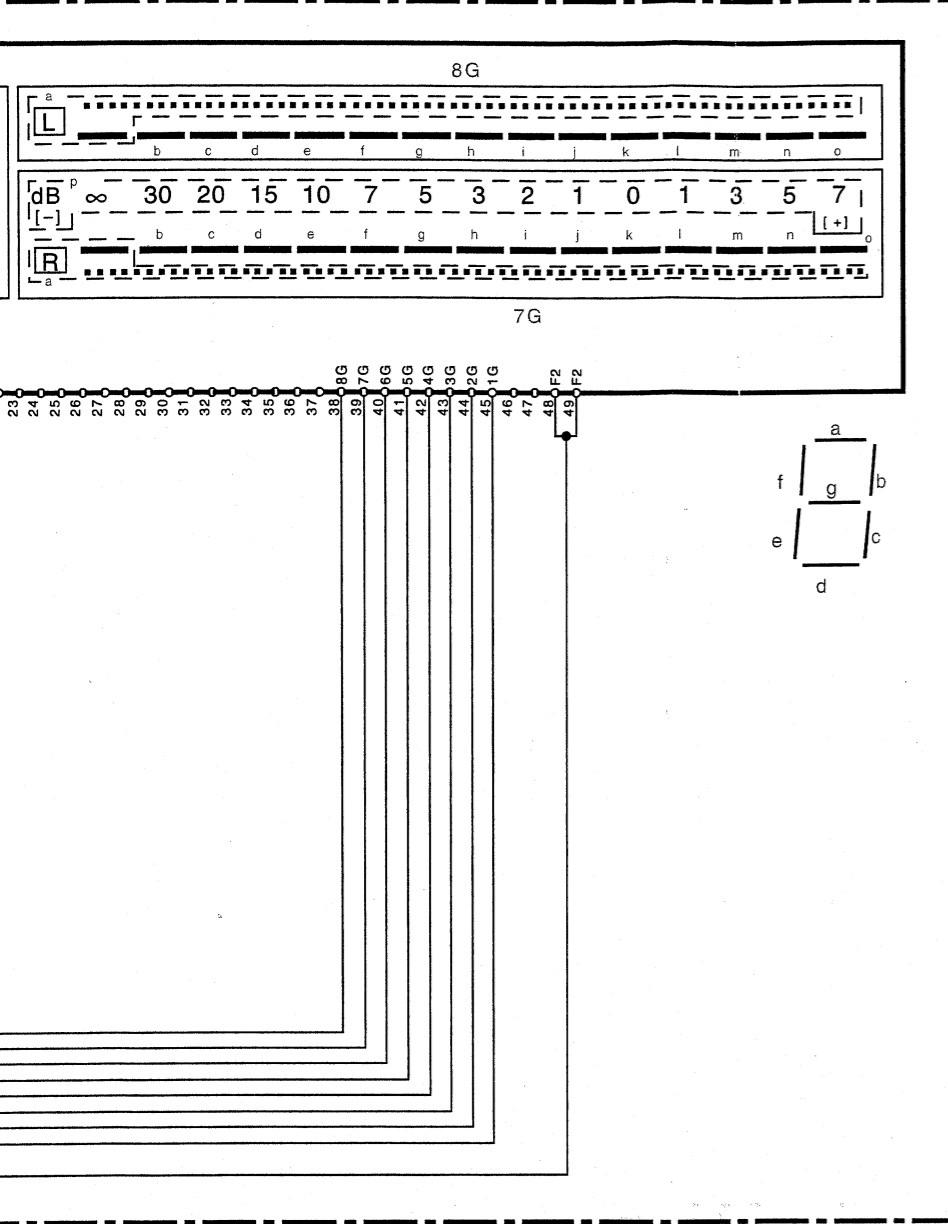
IC51.52 : CXA1917S  
 D501-514 : ISS131 or HSS104A

(X26 - 140X-XX) (B/7)



(X26 - 140X-XX) (C/7)

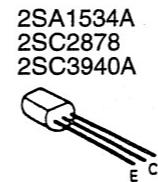




**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

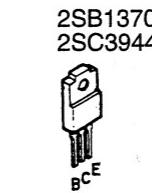
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2SA1534A  
2SC2878  
2SC3940A



DTA143TS  
DTC124ES  
UN4116  
2SA1048  
2SC2458



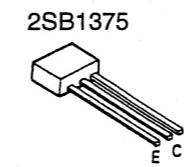
2SB1370  
2SC3944A



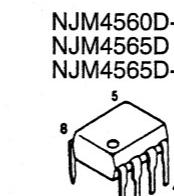
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UN4219  
2SA1309A  
2SC3311A



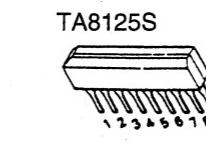
2SC3666



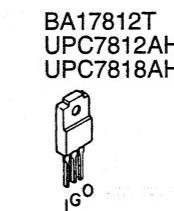
2SB1375



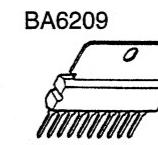
NJM4560D-N  
NJM4565D  
NJM4565D-D



TA8125S



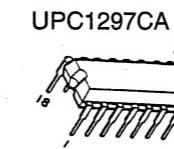
BA17812T  
UPC7812AHF  
UPC7818AHF



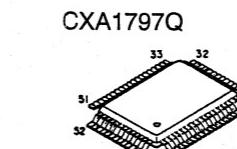
BA6209



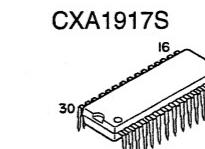
BA10393N



UPC1297CA



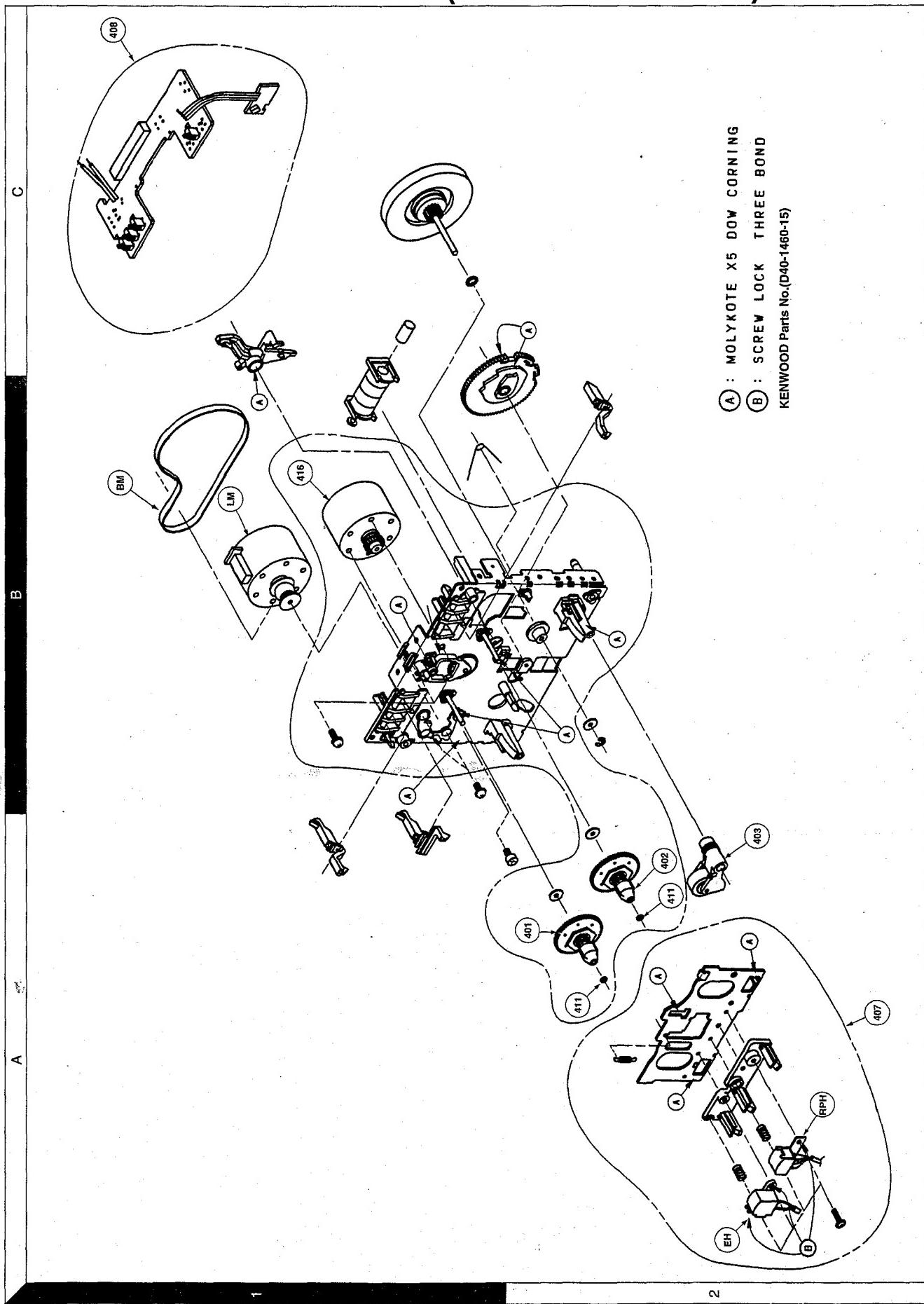
CXA1797Q



CXA1917S

# KX-3080/5080S

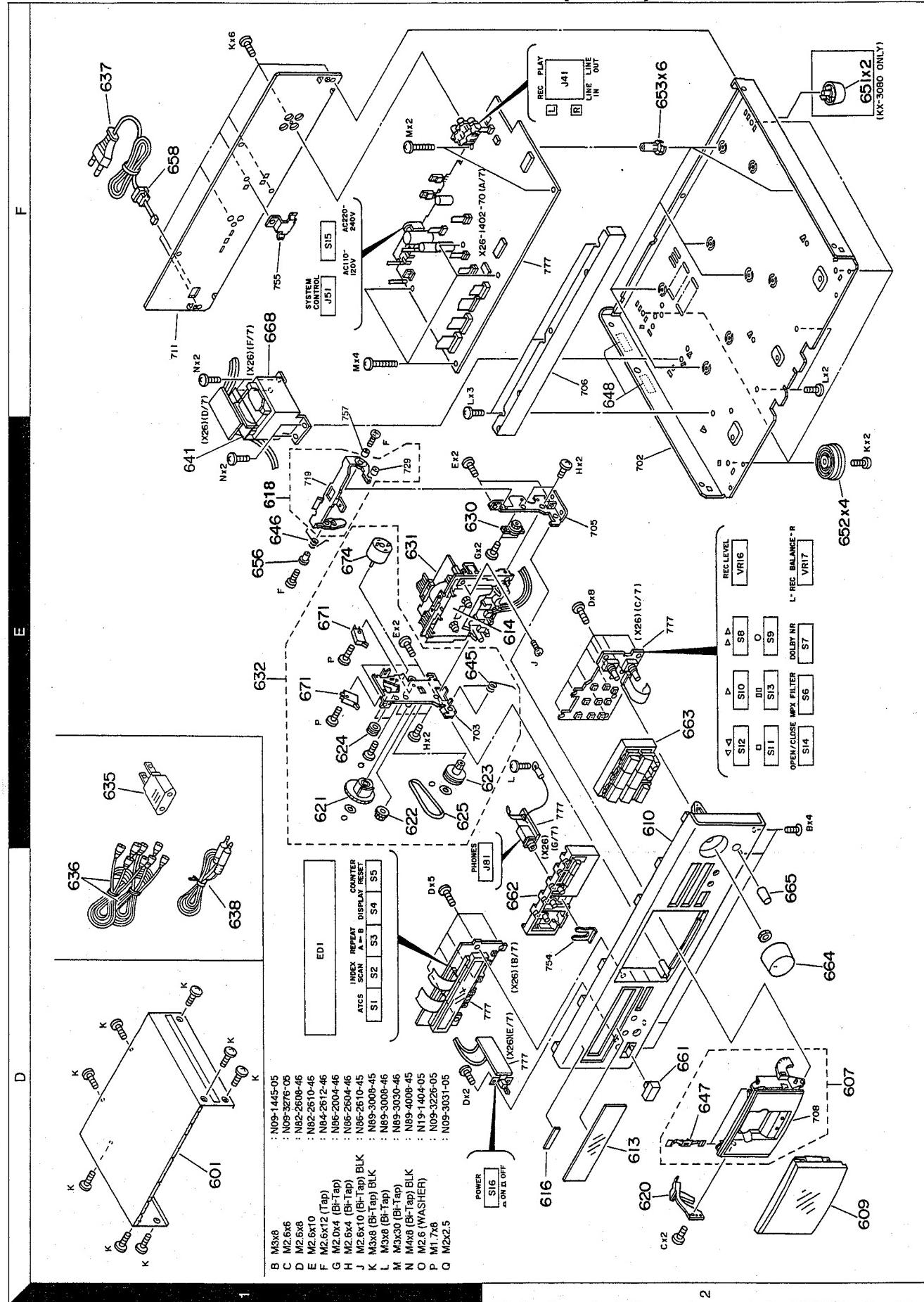
## EXPLODED VIEW (DECK MECHANISM)



Parts without reference number in the exploded view are not supplied.

# KX-3080/5080S

## **EXPLODED VIEW (UNIT)**



**Parts with the exploded numbers larger than 700 are not supplied.**

**KX-3080/5080S**

## PARTS LIST

\* New Parts  
Parts without **Parts No.** are not supplied.  
Les articles non mentionnés dans le **Parts No.** ne sont pas

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Ref. No.	Add- res	New Parts	Parts No.	Description	Defi- nation	Re- marks
<b>KX-3080/5080S</b>						
601	1D	*	A01-32929-01	METALLIC CABINET		
607	2D	*	A53-1914-03	CASSETTE HOLDER ASSY		3
609	2D	*	A53-1916-13	CASSETTE LID		5
609	2D	*	A53-1934-03	CASSETTE LID		3
610	2D	*	A60-0834-11	PANEL		5
610	2F	*	A60-0835-11	DRESSING PLATE	X	
				KENWOOD BADGE	ET	
				WARRANTY CARD	TX	
				WARRANTY CARD	EM	
				PANEL	MXT	
				CAUTION CARD (PL)	E	
				CAUTION CARD (PL)	EM	
				INSTRUCTION MANUAL(ENGLISH)	M	
				INSTRUCTION MANUAL(FRENCH)	M	
				INSTRUCTION MANUAL(GERMANY)	M	
				INSTRUCTION MANUAL(ITALY)		
				INSTRUCTION MANUAL(SPANISH)		
				INSTRUCTION MANUAL(TWAN)		
				INSTRUCTION MANUAL(CHINESE)		
				LEVER ASSY		
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P : PX(Far East, Hawaii) T : Europe X : Australia  
 P : Canada E : Europe M : Other Areas  
 Y : AAFFS(Europe)

L : Scandinavia  
W : PX(Far East, Hawaii)  
Y : AAES(EUROPE)

3 : KX-3080  
5 : KX-5080S

↑ indicates safety critical components.

25

# KX-3080/5080S

## PARTS LIST

4

\* New Parts  
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Teile ohne Parts No. werden nicht geliefert.

Ref. No	Add- ress	Parts No.	Description	Desti- nation	Re- marks
C201,202		CE04KW1V4R7M	ELECTRO	35W	
C203,204		CE04KW1V100M	ELECTRO	35W	
C205,206		CC45FSL1H220J	CERAMIC	25W	
C207,208		C90-1854-05	ELECTRO	10UF	J
C209,210		CK45FB1H681K	CERAMIC	680PF	K
C211,212		CC45FSL2H221J	CERAMIC	220PF	J
C213,214		CO93FMG1H223J	MYLAR	0.022UF	J
C301,302		C91-1434-05	FILM	150PF	J
C303,304		C91-1434-05	FILM	220PF	J
C305,306		CK45FB1H561K	CERAMIC	560PF	K
C307,308		CO93FMG1H103J	MYLAR	0.010UF	J
C309,310		CO93FMG1H153J	MYLAR	0.015UF	J
C311,312		CO93FMG1H223J	MYLAR	0.022UF	J
C313		CE04KW1V100M	ELECTRO	10UF	J
C314,315		CE04KW1V4R7M	ELECTRO	4.7UF	35W
C316		CE04KW1V100M	ELECTRO	10UF	35W
C317		CE04KW1V4R7M	ELECTRO	4.7UF	25W
C318		CC45FSL2H100D	CERAMIC	10PF	D
C319		CO93FMG1H223J	MYLAR	8800PF	J
C320		CO93FMG1H223J	MYLAR	470U	35W
C321		CE04KW1V100M	ELECTRO	10UF	35W
C322		CO93FMG1H183J	MYLAR	0.018UF	J
C323,324		CO93FMG1H472J	MYLAR	6800PF	J
C325		CO93FMG1H882J	MYLAR	0.10UF	J
C326		CO93FMG1H104J	MYLAR	0.10UF	Z
C327		CE04KW1V100M	ELECTRO	0.33UF	50W
C328		CO93FMG1H183J	ELECTRO	100UF	50W
C401		CO93FMG1H472J	ELECTRO	4.7UF	25W
C402		CO93FMG1H882J	CERAMIC	0.010UF	Z
C403,404		CK45FF1H103Z	CERAMIC	100PF	K
C405-407		CE04KW1H932M	ELECTRO	1.0UF	50W
C408		CK45FB1H102K	CERAMIC	1000PF	K
C409		CK45FF1H103Z	MYLAR	0.010UF	J
C411,412		CE04KW1V100M	CERAMIC	10UF	35W
C413,414		CE04KW1H102K	ELECTRO	100UF	35W
C415,416		CO93FMG1H103J	MYLAR	0.10UF	J
C503,504		CO93FMG1H104J	MYLAR	1800PF	J
C505-508		CO93FMG1H182J	MYLAR	5	5
C509,510		CE04KW1V100M	ELECTRO	0.22UF	50W
C515,516		CO93FMG1H104J	MYLAR	0.22UF	50W
C517,518		CO93FMG1H104J	MYLAR	1.0UF	50W
C519,520		CO93FMG1H104J	MYLAR	0.022UF	J
C523,524		CO93FMG1H893J	MYLAR	0.039UF	J
C525,526		CO93FMG1H881J	MYLAR	680PF	J
C527,528		CO93FMG1H882J	MYLAR	8200PF	J
C529,530		CE04KW1H947M	ELECTRO	0.47UF	50W
C531,532		CE04KW1H922M	ELECTRO	0.22UF	50W
C533,534		CE04KW1H922M	ELECTRO	0.1UF	J
C535,536		CE04KW1V100M	ELECTRO	100UF	50W
C537,538		CE04KW1H947M	ELECTRO	0.47UF	50W
C539,540		CE04KW1H947M	ELECTRO	0.1UF	50W

L : Scandinavia K : USA P : Canada  
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Y : AA/EE(Europe) X : Australia M : Other Areas

3 : KX-3080  
5 : KX-5080S  
△ indicates safety critical components.

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\* New Parts  
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Ref. No	Add- ress	Parts No.	Description	Desti- nation	Re- marks
C541,542		CE04KW1HR22M	ELECTRO	0.22UF	50W
C543,544		CQ93FMG1H473J	MYLAR	0.047UF	J
C545,546		CQ93FMG1H822J	MYLAR	8200PF	J
C547,548		CQ93FMG1H222J	MYLAR	2200PF	J
C549,550		CQ93FMG1H471J	MYLAR	470PF	J
C553,554		CQ93FMG1H393J	MYLAR	0.039UF	J
C555,556		CQ93FMG1H104J	MYLAR	0.10UF	J
C557,558		CQ93FMG1H223J	MYLAR	0.022UF	35W
C559,560		CE04KW1V100M	ELECTRO	10UF	Z
C601-603		CK45FF1H103Z	ELECTRO	0.010UF	Z
C604		CE04KW1H922M	ELECTRO	22UF	50W
C605		CQ93FMG1H473Z	CRAMIC	0.010UF	Z
C606,607		CK45FF1H473Z	CRAMIC	0.010UF	Z
C701		CK45FF1H103Z	CRAMIC	0.010UF	Z
C702		CE04KW1V332M	ELECTRO	3300UF	35W
C703		CK45FF1H103Z	CRAMIC	0.010UF	Z
C704		CQ93FMG1H104J	MYLAR	0.10UF	35W
C705		CE04KW1V100M	ELECTRO	10UF	63W
C706		CK45FF1H471M	ELECTRO	470UF	60W
C707		CE04KW1H100M	ELECTRO	10UF	Z
C708		CK45FF1H103Z	CRAMIC	0.010UF	Z
C709		CE04KW1V330M	ELECTRO	33UF	35W
C710		CK45FF1H103Z	CRAMIC	0.010UF	10W
C711		CE04KW1V471M	MYLAR	0.010UF	J
C712-714		CK45FF1H103Z	CRAMIC	0.010UF	Z
C715		CE04KW1H221M	ELECTRO	220UF	50W
C716		CQ93FMG1H221M	ELECTRO	220UF	63W
C717		CK45FF1H103Z	CRAMIC	0.010UF	50W
C718		CE04KW1H471M	ELECTRO	470UF	120J
C719,720		CE04KW1H124J	MF-C	0.12UF	J
C721		CE04DW1E331M	ELECTRO	3300UF	25W
C722		CE04KW1E101M	ELECTRO	220UF	25W
C723		CK45FB1H102M	ELECTRO	4.7UF	25W
C724		CE04DW1C471M	ELECTRO	470UF	50W
C725		CK45FB1H103Z	ELECTRO	470UF	16W
C726		CK45FSL1H222K	CRAMIC	2200PF	K
C727		CE04KW1E101M	ELECTRO	100UF	25W
C728		CK45FB1H102M	ELECTRO	100UF	25W
C729		CE04KW1V100M	ELECTRO	100UF	10W
C730		CQ93FMG1H103J	MYLAR	0.010UF	J
C731		CK45FSL1H221J	CRAMIC	220PF	J
C732		CE04KW1V100M	ELECTRO	100UF	35W
C733		CK45FSL1H332J	CRAMIC	3300PF	J
C734		CE04HW1H474M	NP-ELEC	0.471UF	J
C735		CK45FSL1H221J	CRAMIC	220PF	J
C736		CE04KW1V100M	ELECTRO	100UF	35W
C737		CK45FSL1H221J	CRAMIC	3300PF	J
C738,739		CE04HW1H474M	NP-ELEC	0.471UF	J
C740,741		CK45FF1H103Z	CRAMIC	0.010UF	Z
C743		CE04KW1I470M	ELECTRO	470UF	63W
C744		C91-148-05	ELECTRO	6800PF	50W
C745		CE04KW1H101M	ELECTRO	1.0UF	50W
C746		CE04KW1V4R7M	ELECTRO	4.7UF	35W
C747		C91-148-05	ELECTRO	6800PF	50W
C748		CE04KW1V4R7M	ELECTRO	4.7UF	250VAC
C749		CE04KW1V4R7M	ELECTRO	4.7UF	250VAC
C750		CE04KW1H102K	ELECTRO	100UF	35W
C751		CE04KW1V100M	ELECTRO	100UF	K
C752		CE04KW1H101M	ELECTRO	100UF	M
C753		CE04KW1H101M	ELECTRO	100UF	EXT

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## PARTS LIST

6

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Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Add- res	Parts No.	Description	Desti- nation	Re- marks
C807		CEO4KW11EAT0M	ELECTRO	25WV	
C808		CEO4KW1C220M	ELECTRO	22WV	
C809		CEO4KW1H010M	ELECTRO	16WV	
C901		CK45FF1H103Z	CERAMIC	50WV	Z
C902		CQ93FMG1H104J	MYLAR	0.010UF	J
C903		CEO4KW1V14R7M	ELECTRO	0.010UF	
C904		CEO4KW1H010M	ELECTRO	0.010UF	
C905		C901-826-05	BACKUP-C	0.047F	
C906		CK45FF1H223Z	CERAMIC	0.022UF	
C907		CEO4KW1A101M	ELECTRO	100WV	
C908		CK45FF1H223Z	CERAMIC	0.022UF	
C909		CEO4KW1V100M	ELECTRO	0.022UF	
C910		CQ93FMG1H102J	NYLAR	1000PF	Z
C911		CK45FB1H102K	CERAMIC	1000PF	K
C912		CEO4KW1C331M	ELECTRO	330UF	16WV
C913		CEO4KW1A101M	ELECTRO	100UF	10WV
C914		CEO4KW1H010M	ELECTRO	1.0UF	50WV
C915		CEO4KW1V1470M	ELECTRO	47UF	35WV
C916		CEO4KW0.222N	ELECTRO	220UF	6.3WV
CN1		E40-3249-05	PIN ASSY		
CN10		E40-4293-05	FLAT CABLE CONNECTOR		
CN31		E40-3246-05	PIN ASSY		
CN61		E40-3250-05	PIN ASSY		
CN71		E40-4632-05	PIN ASSY		
CN72		E40-4245-05	PIN ASSY		
CN73		E40-4244-05	SOCKET FOR PIN ASSY		
CN74		E40-4234-05	FLAT CABLE CONNECTOR		
CN75		E40-4030-05	FLAT CABLE CONNECTOR		
CN76		E40-4428-05	PIN ASSY		
J41		E63-0136-15	PHONO JACK		
J51		E11-0188-05	MINIATURE PHONE JACK(2P)		
J81		E11-0272-05	PHONE JACK		
L11	1.12	L79-0791-05	LC FILTER		
L21	2.22	L00-1035-29	SMALL FIXED INDUCTOR(10MH, J)		
L31	3.32	L32-0547-05	BIAS OSCILLATING COIL		
L33		L32-0533-05	BIAS OSCILLATING COIL		
X1		L78-0290-05	RESONATOR (8MHz)		
R20		RD14NB2E102J	RD	1.0K	J
R305		R92-0508-05	FUSE RESIST	22	G
R308	310	RD14NB2E220J	RD	22	J
R311		R92-04219-E5	FUSE RESIST	10	G
R317		RD14NB2E182J	RD	1.8K	J
R412		RD14NB2E100J	RD	10	J
R610		RS14KB3D100J	FL-PROOF RS	10	1/4W
R615		RS14KB3D100J	FL-PROOF RS	10	2W
R701		RS14KB3D393J	FL-PROOF RS	390	2W
R702		RD14NB2E2332J	RD	3.3K	1/4W
R712	7.13	R92-0265-05	FUSE RESIST	5.6	J
R714	7.15	R92-0341-05	FUSE RESIST	4.7	J
R763		R92-0341-05	FUSE RESIST	4.7	G
R901		R92-0508-05	TRIMMING POT (330)	22	G
VR1.2		R12-0606-05	TRIMMING POT (22K)		
VR11.12		R12-3686-05	TRIMMING POT (330)		
VR13.14		R12-6663-05	TRIMMING POT (22K)		

K : USA P : Canada E : Europe X : Australia M : Other Areas  
Y : AA/FE(Europe) Y : PX(Far East, Hawaii) T : Europe Y : AA/FE(Europe)

3 : KX-3080 5 : KX-5080S

L : Scandinavia K : USA P : Canada E : Europe X : Australia M : Other Areas  
Y : PX(Far East, Hawaii) T : Europe Y : AA/FE(Europe)

△ indicates safety critical components.  
▲ indicates safety critical components.

Ref. No.	Add- res	Parts No.	Description	Parts No.	Desti- nation	Re- marks
VR15		R12-1618-05	TRIMMING POT (3.3K)	R31-006-05		
VR16		R31-0060-05	VARIABLE RESISTOR	R31-0060-05		
K1		S76-0027-05	MAGNETIC RELAY	S70-003-05		
S1-14		S62-0001-05	TACT SWITCH	S40-1153-05		
S15	△	HZS10N(B2)	PUSH SWITCH			
S16	△	RD10ES(B2)				
D1		HSS104	ZENER DIODE			
D2.3		ISS133	ZENER DIODE			
D2.4		HSS104	ZENER DIODE			
D21	-24	ISS133	ZENER DIODE			
D31		ISS133	ZENER DIODE			
D31		HSS104	ZENER DIODE			
D101	102	ISS133	ZENER DIODE			
D601	602	HSS104A	ZENER DIODE			
D601	602	ISS131	ZENER DIODE			
D3SB2A20503		D3SB2A20503	ZENER DIODE			
RBV402LFA		RBV402LFA	ZENER DIODE			
S5688B		S5688B	ZENER DIODE			
1SR139-100		1SR139-100	ZENER DIODE			
HZS4.7N(B)		HZS4.7N(B)	ZENER DIODE			
RD4.7ES(B)		RD4.7ES(B)	ZENER DIODE			
HZS2.7N(B)		HZS2.7N(B)	ZENER DIODE			
HZS3.3N(B)		HZS3.3N(B)	ZENER DIODE			
RD3.3ES(B)		RD3.3ES(B)	ZENER DIODE			
HSS104		HSS104	ZENER DIODE			
D701		ISS133	ZENER DIODE			
D702		ISS133	ZENER DIODE			
D703		ISS133	ZENER DIODE			
D703		ISS131	ZENER DIODE			
D704		ISS133	ZENER DIODE			
D705		ISS133	ZENER DIODE			
D705		ISS131	ZENER DIODE			
D706		ISS133	ZENER DIODE			
D706		ISS133	ZENER DIODE			
D707		ISS133	ZENER DIODE			
D707		ISS133	ZENER DIODE			
D709		ISS133	ZENER DIODE			
D710		ISS133	ZENER DIODE			
D711		ISS133	ZENER DIODE			
S5688B		S5688B	ZENER DIODE			
1SR139-100		1SR139-100	ZENER DIODE			
HSS104A		HSS104A	ZENER DIODE			
ISS131		ISS131	ZENER DIODE			
D712	7.15	D712	ZENER DIODE			
D712	7.15	1SR139-100	ZENER DIODE			
D716		RD18ES(B)	ZENER DIODE			
D716		HZS5.15(B2)	ZENER DIODE			
D717		RD5.1JS(B2)	ZENER DIODE			
D717		HSS104A	ZENER DIODE			
D718	7.19	ISS131	ZENER DIODE			
D719	7.19	HSS104	ZENER DIODE			
D720	7.30	ISS133	ZENER DIODE			
D720	7.30	S5688B	ZENER DIODE			
D731	7.32	HSS104A	ZENER DIODE			
D731	7.32	ISS131	ZENER DIODE			
D732		HSS104A	ZENER DIODE			
D733		ISS131	ZENER DIODE			
D734		HSS104	ZENER DIODE			
D734		ISS133	ZENER DIODE			
D735		HZS6.8N(B2)	ZENER DIODE			

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# KX-3080/5080S

## **PARTS LIST**

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\* New Parts      \* New Parts  
Parts without **Parts No.** are not supplied.  
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.  
Teile ohne **Parts No.** werden nicht geliefert.

**P**: PX(Far East, Hawaii) **E**: Europe **A**: Africa **F**: Far East **S**: South America **M**: Other Areas

 indicates safety critical components.

\*\* New Parts  
Parts articles non mentionnés dans le **Parts No.** ne sont pas fournis.  
es articles non mentionnés dans le **Parts No.** ne sont pas fournis.  
alle ohne **Parts No.** werden nicht geliefert.

Ref. No.	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
27736	D736		RD6.8ES(B2)	ZENER DIODE		
	D736		HZS62NB(B2)	ZENER DIODE		
	D736		RD6.2ES(B2)	ZENER DIODE		
	2801.802		HSS104	ZENER DIODE		
	2801.802		1SS133	ZENER DIODE		
2901-936	2901-936		HSS104	ZENER DIODE		
	2901-936		1SS133	ZENER DIODE		
	2907		HZS62.9N(B)	ZENER DIODE		
	2907		RD3.9ES(B)	ZENER DIODE		
2908	2908		HSS104	ZENER DIODE		
2909	2909		1SS133	ZENER DIODE		
	2909		HZS6.8BN(B2)	ZENER DIODE		
	2910		RD6.8ES(B2)	ZENER DIODE		
	2910		HSS104	ZENER DIODE		
	2910		1SS133	ZENER DIODE		
CD1			BZ248GK	INDICATOR TUBE		
C1			IC2CH PRE AMP			
C11			CXA1797Q	ANALOGUE IC		
C21			NJM4560D-N	IC1OP AMP X2)		
C31			UPC1297CA	IC(DOL HX PRO SYSTEM)		
C41			NJM4565D-D	IC1OP AMP X2)		
C51	52		CXA1917S	ANALOGUE IC		
C61			BA10393N	IC(DUAL COMPARATOR)		
C62	63		BA6209	IC(MOTOR DRIVER)		
C71			BA17812T	IC(VOLTAGE REGULATOR/+12V)		
C72			UPC718AHF	IC(VOLTAGE REGULATOR/+12V)		
C73			UPC718AHF	IC(VOLTAGE REGULATOR/+18V)		
C81		*	HD64337/3D89F	MI-COM IC		
C91			NJM4565D	IC1OP AMP X2)		
			TA78057S	IC(VOLTAGE REGULATOR/+5.75V)		
C92			PST7983D-T	ANALOGUE IC		
C93	1.2		2SC2458RN(GR)	TRANSISTOR		
C94	03.4		2SC3311(AQ,R)	TRANSISTOR		
C95	03.4		DTC124ES	DIGITAL TRANSISTOR		
			UN4212	TRANSISTOR		
			2SC2878(B)	TRANSISTOR		
C21	22		2SD1450(S,T)	TRANSISTOR		
	22		DTC124ES	DIGITAL TRANSISTOR		
	22		UN4212	TRANSISTOR		
	22		2SC2458RN(GR)	TRANSISTOR		
	22		2SC3311(AQ,R)	TRANSISTOR		
	22					
	22		2SC9340AF(S)	TRANSISTOR		
	22		DTC124ES	DIGITAL TRANSISTOR		
	22		UN4212	TRANSISTOR		
	22		2SA1534AF(S)	TRANSISTOR		
	22		2SC2878(B)	TRANSISTOR		
	22					
	22		2SD1450(S,T)	TRANSISTOR		
	22		2SC3666	TRANSISTOR		
	22		DTC113ZS	TRANSISTOR		
	22		UN4219	TRANSISTOR		
	22		2SC2878(B)	TRANSISTOR		

 indicates safety critical components.

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# KX-3080/5080S

## SPECIFICATIONS

### [ MODEL : KX-5080S ]

Track System .....	4-track, 2-channel stereo
Recording System .....	AC bias (Frequency : 105 kHz)
Heads	
Playback / recording head .....	1
Erasing head.....	1
Motors.....	DC motor x 2
Fast Winding Time .....	Approx. 90 seconds (C-60 tape)
Frequency Response:	
TYPE I Tape .....	20 Hz to 18,000 Hz, ± 3 dB
TYPE II Tape .....	20 Hz to 18,000 Hz, ± 3 dB
TYPE IV Tape .....	20 Hz to 19,000 Hz, ± 3 dB
Signal-to Noise Ratio:	
Dolby NR OFF .....	56 dB (IEC, 250 nWb/m, TYPE IV tape)
Dolby NR OFF.....	59 dB (TYPE IV tape)
Dolby S NR ON .....	80 dB (TYPE IV tape)
Dolby B NR ON .....	67 dB (TYPE IV tape)
Dolby C NR ON .....	74 dB (TYPE IV tape) (3rd H.D.,3%, TYPE IV tape)
Harmonic Distortion.....	Less than 1.7 % (at 315 Hz, 3rd H.D.,250nWb/m, TYPE IV tape)
Wow and Flutter.....	± 0.19 % (DIN) 0.07 % (W.R.M.S)
Input sensitivity / Impedance:	
LINE IN .....	100 mV / 34 kΩ
Output Level / Impedance:	
LINE OUT .....	775 mV / 1 kΩ
Headphones .....	0.5 mW / 32 Ω

### [GENERAL]

Power Consumption .....	30 W
Dimensions.....	W : 440 mm (17-5 / 16") H : 124 mm (4-7 / 8") D : 374 mm (14-3 / 4")
Weight (Net).....	4.6 kg (10.1 lb)

### [ MODEL : KX-3080 ]

Track System .....	4-track, 2-channel stereo
Recording System .....	AC bias (Frequency : 105 kHz)
Heads	
Playback / recording head .....	1
Erasing head.....	1
Motors.....	DC motor x 2
Fast Winding Time .....	Approx. 90 seconds (C-60 tape)
Frequency Response:	
TYPE I Tape .....	20 Hz to 18,000 Hz, ± 3 dB
TYPE II Tape .....	20 Hz to 18,000 Hz, ± 3 dB
TYPE IV Tape .....	20 Hz to 19,000 Hz, ± 3 dB
Signal-to Noise Ratio:	
Dolby NR OFF .....	56 dB (IEC, 250 nWb/m, TYPE IV tape)
Dolby NR OFF.....	59 dB (TYPE IV tape)
Dolby B NR ON .....	67 dB (TYPE IV tape)
Dolby C NR ON.....	74 dB (TYPE IV tape) (3rd H.D.,3%, TYPE IV tape)
Harmonic Distortion.....	Less than 1.7 % (at 315 Hz, 3rd H.D.,250nWb/m, TYPE IV tape)
Wow and Flutter.....	± 0.19 % (DIN) 0.07 % (W.R.M.S)
Input sensitivity / Impedance:	
LINE IN .....	100 mV / 34 kΩ
Output Level / Impedance:	
LINE OUT .....	775 mV / 1 kΩ
Headphones .....	0.5 mW / 32 Ω

### [GENERAL]

Power Consumption .....	30 W
Dimensions.....	W : 440 mm (17-5 / 16") H : 124 mm (4-7 / 8") D : 374 mm (14-3 / 4")
Weight (Net).....	4.6 kg (10.1 lb)

# KX-3080/5080S

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KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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**Note:**

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the General market(M) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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